PATENT COOPERATION TREATY

То:				PCT					
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY					
					(PCT Rule 43bis.1)				
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)					
Applicant's or age	ent's file i	reference		FOR FURTHER ACTION					
see form PCT	/ISA/22	0		See paragraph 2 b	_				
International appl PCT/EP2004/			International filing date (day/month/year)	Priority date (day/month/year) 04.11.2003				
International Pate	ent Class	ification (IPC) or	both national classification	and IPC					
			0, C07D333/52	•					
Applicant									
BASELL POL	YOLEF	INE GMBH							
 This opir 	nion co	ntains indication	ons relating to the fol	lowing items:					
⊠ Box N	lo. I	Basis of the op	oinion						
⊠ Box N	lo. II	Priority							
☐ Box N		Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
☐ Box N		Lack of unity of invention							
⊠ Box N		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
⊠ Box N	lo. VI	Certain documents cited							
☐ Box N	lo. VII	Certain defects in the international application Certain observations on the international application							
☐ Box N	ło. VIII								
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.									
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is in submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the p whichever expires later.									
submit to months f	rom the	date of mailing	of Form PCT/ISA/220 o	or before the expirat	ion of 22 months from the priority date,				
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Form (PCT/ISA/237) (Cover Sheet) (January 2004)

TASA237) (Cover Sheet) (January 2004)

D. MiRC E(der, G832 /13.01.05

10/578059

IAP12 Rec'd PCT/PTO 02 MAY 2006 International application No.

PCT/EP2004/012358

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box No. I Basis of the opinion	
 With regard to the language, this opinion has been established on the basis of the internatio the language in which it was filed, unless otherwise indicated under this item. 	nal application in
This opinion has been established on the basis of a translation from the original language language , which is the language of a translation furnished for the purposes of interna (under Rules 12.3 and 23.1(b)).	e into the following tional search
With regard to any nucleotide and/or amino acid sequence disclosed in the international a necessary to the claimed invention, this opinion has been established on the basis of:	pplication and
a. type of material:	
☐ a sequence listing	
☐ table(s) related to the sequence listing	•
b. format of material:	
☐ in written format	
☐ in computer readable form	
c. time of filing/furnishing:	
☐ contained in the international application as filed.	
filed together with the international application in computer readable form.	
☐ furnished subsequently to this Authority for the purposes of search.	
3. In addition, in the case that more than one version or copy of a sequence listing and/or that been filed or furnished, the required statements that the information in the subseque copies is identical to that in the application as filed or does not go beyond the application appropriate, were furnished.	ent or additional
4. Additional comments:	

	Box	No. II	Priority									
1.	⊠	The fo	llowing documer	nt has n	ot bee	n furnishe	ed:					
		⊠	copy of the ear					oeen claime	ed (Rule	43 <i>bis</i> .1	and 66.7(a))	·
			translation of th									
			quently it has no								·	
		nevert	heless been esta	ablishe	d on th	e assump	tion that the	e relevant c	late is the	e claime	d priority da	te.
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.											
3.		Was no	not been possibl ot available to th heless been est	e ISA a	it the ti	me that th	e search w	as conduct	ed (Rule	17.1).	his opinion.	has
4.	Add	ditional	observations, if r	necess	ary:			• •				
·			· 									
	Bo:	x No. V ustrial	Reasoned stapplicability; c	tateme itation:	nt und s and e	ler Rule 4 explanation	3 <i>bis</i> .1(a)(i) ons suppo	with rega rting such	stateme	nt enty, in	iventive ste	p or
1.	Sta	tement										
	-					Olaina						
	Nov	velty (N)	•	Yes: No:	Claims Claims	1-10					
	•					.					•	
	Inv	entive s	step (IS)		Yes: No:	Claims Claims	1-10				•	
				•	110.	Giairio						
	Ind	ustrial a	applicability (IA)			Claims	1-10					
					NO:	Claims	•					
2.	Cita	ations a	and explanations					•				
	see	e separ	ate sheet							•	•	
		•	•			٠						
_	Во	x No. V	/I Certain doc	ument	s cited	·						
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	and	d/or										

Form PCT/ISA/237 (January 2004)

see form 210

2. Non-written disclosures (Rules 43bis.1 and 70.9)

Re Item V.

1 The following documents are referred to in this communication:

D1: RYABOV A N ET AL: "ZIRCONIUM COMPLEXES WITH CYCLOPENTADIENYL LIGANDS INVOLVING FUSED A THIOPHENE FRAGMENT" ORGANOMETALLICS, ACS, COLUMBUS, OH, US, vol. 21, no. 14, 2002, pages 2842-2855, XP001106373 ISSN: 0276-7333

D2: EP 0 549 900 A (HOECHST AG) 7 July 1993 (1993-07-07)

2 Novelty

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parenthesis applying to this document): a zirconium complex with a cyclopentadienyl ligand involving a fused thiophene fragment (see figure 9, page 2849). The document further discloses that this class of complexes are regarded as "new promising polymerization catalysts". (page 2842, lines 1-16; see also footnotes 1,2,4 cited in D1).
 As a consequence, the subject-matter of claims 1-10 is not novel towards D1.
- 2.2 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

 Document D2 discloses (the references in parenthesis applying to this document): benzo fused metallocene complexes as catalyst components for the polymerization of olefines (page 1, lines 1-3). In example 1,2 on page 17 dimethyl silyl bis(2-methyl-4,5-benzoindenyl)zirconium dichloride is used in combination with MAO as catalyst system for the polymerization of propylene.

 As a consequence, the subject-matter of claims 1,5-10 is not novel towards D2.

Re Item VI

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/EP2004/012358

Certain documents cited

Certain published documents - Rule 70.10

Application No Patent No Publication date (day/month/year)

Filing date (day/month/year)

Priority date (valid claim) (day/month/year)

W0 03/106470 - A1

24.12.2003

28.05.2003

12.06.2002

31.07.2002

The above mentioned patent application is not considered part of the prior art for the purpose of international preliminary examination as to novelty and inventive step. The document may be relevant to the determination of novelty and inventive step by designated or elected offices.